

Need for EMT Expertise

Insights from Survey by Electromagnetic Transients Modeling Working Group

Aung Thant, Principal Engineer,
Engineering and Security Integration, NERC

2025 Electromagnetic Transient Simulation workshop October 7, 2025



Summary from EMT Adoption Survey



Near Term Actions

- Broaden training and resources
- Harmonization of modeling practices
- Investment in infrastructure
- Early model verification and coordination

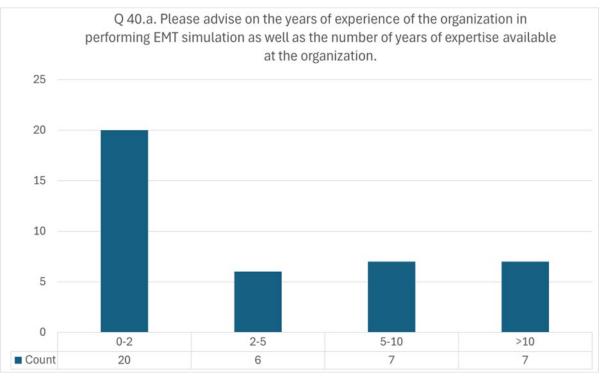
Long Term Actions

- Optimize software compatibility
- Leverage highperformance computing solutions
- Advance automation and interoperability
- Improve data sharing



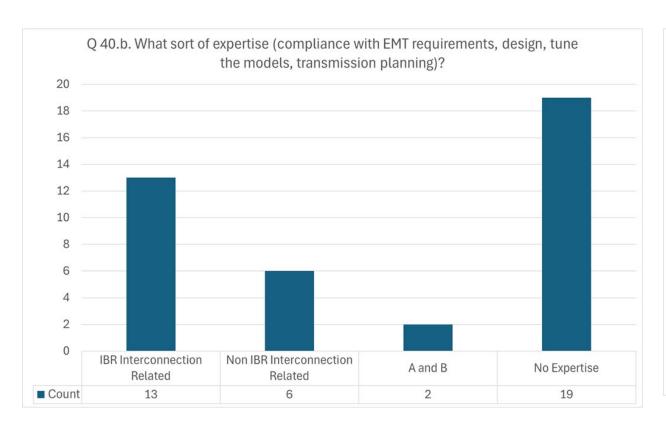
EMT Adoption Survey – EMT Expertise Assessment

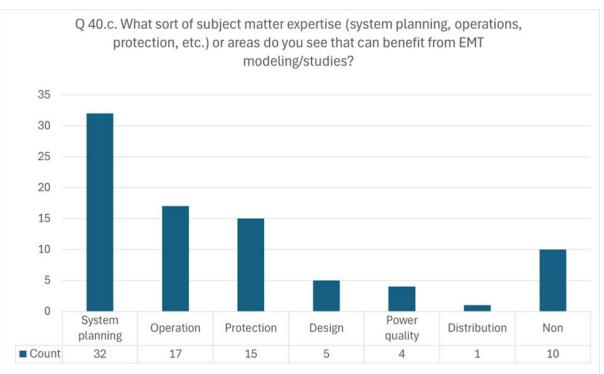






EMT Expertise Assessment













Near-Term Industry Actions on Expanding Expertise

Broaden Training and Resources:

- Expand the availability of targeted training materials to address knowledge gaps, especially for those without defined resources.
- Consider establishing centralized repositories with up-to-date materials and industry best practices.

Foster Knowledge Sharing and Mentorship:

- Promote a culture of continuous learning by establishing formal knowledge-sharing groups and pairing new staff with experienced engineers.
- Creating opportunities for industry collaboration and formal training can ensure that best practices are widely adopted.





Questions and Answers

